

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

YONGWOO PARK, ET AL.

Application No.:

Filed:

For: **Highly Efficient Focusing Waveguide  
Grating Coupler Using Leaky Mode**

Art Group:

Examiner:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted concurrently with the Utility Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s). Copies of the references cited on PTO/SB/08 are enclosed herewith.

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Date: 12/31/03

Respectfully submitted,

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<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p>				<p><b>Complete if Known</b></p>	
Sheet	1	of	2	Application Number	
				Filing Date	
				First Named Inventor	Yongwoo Park
				Art Unit	
				Examiner Name	
				Attorney Docket Number	51876P580

Examiner Signature		Date Considered	
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (w/c) 08/11/2003

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
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Sheet

2

of

2

**Complete if Known**

Application Number	
Filing Date	
First Named Inventor	Yongwoo Park
Art Unit	
Examiner Name	
Attorney Docket Number	51876P580

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Ura, et al., "An Integrated-Optic Disk Pickup Device," Journal of Lightwave Technology, Vol. LT-4, No. 7, July 1986, pp. 913-918.	
		R. Ulrich, "Efficiency of Optical-Grating Couplers," Journal of the Optical Society of America, Vol. 63, No. 11, November 1973, pp. 1419-1431.	
		Aoyagi, et al., "High-Efficiency Blazed Grating Couplers," Applied Physics Letters, Vol. 29, No. 5, September 1, 1976, pp. 303-304.	
		Rancone, et al., "Single-leakage-channel grating couplers: comparison of theoretical and experimental branching ratios," Optics Letters, Vol. 18, No. 22, November 19, 1993, pp. 1919-1921.	
		Avrutsky, et al., "High-efficiency single-order waveguide grating coupler," Optics Letters, Vol. 15, No. 24, December 15, 1990, pp. 1446-1448.	
		Sheard, et al., "Focusing waveguide grating coupler using a diffractive doublet," Applied Optics, Vol. 36, No. 19, July 1, 1997, pp. 4349-4353.	

Examiner  
Signature

Date  
Considered

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